

AMENDMENTS TO THE SPECIFICATION

A1 Please insert the following paragraph on page 6, line 31 as follows:

An alternative embodiment is a sliding arrangement wherein the photocatalytic purifier 10 can be made to slide from its installed position to a retracted position as shown by the dashed lines in Fig. 4.

A2 Please amend the paragraph on page 7, line 9 as shown below:

Fan coil control 110 includes several operational modes 80 that are selected by a switch 81. The first mode is an "unoccupied mode." In this mode, the level of comfort provided by fan coil unit 100 does not have to be at an optimum level because no one is in the conditioned space as determined by the sensor 82. The heating and cooling of the air conditioned zone is regulated in accordance with a wider "dead-band." Thus, controller 110 allows the ambient air temperature of the air conditioned zone to vary within a wide range of temperatures before providing either heating or cooling. The UV lamps are generally inoperative during this mode but may be on for some lead/lay time before or after occupancy.

A3 Please amend the paragraph on page 7, line 17 as shown below:

The second mode is referred to as the "occupied mode." In this mode, the level of comfort provided by fan coil unit 100 is optimized because of the presence of people in the conditioned space. Thus, the UV lamps are always operating in this mode. The occupied mode includes a "demand" sub-mode wherein fan 32 is operating at a higher speed, and a "satisfied" sub-mode wherein fan 32 is operative at a lower speed. In other embodiments, controller 110 uses a "tolerance index" as a control metric. Controller 110 may include a motion detector input to determine whether the conditioned space is occupied.

A4 Please amend the paragraph on page 7, line 25 as shown below:

A third mode is provided by controller 110. It is known as the "frost protection mode." The frost protection mode initiates heating within a conditioned space only to maintain a minimum air temperature within the air conditioned space. Since the air conditioned space is assumed to be unoccupied, the UV lamps are not

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operative in this mode. In addition to temperature sensors 86, controller 110 may include a sensor 87 input coupled to window contacts, enabling it to recognize an open window condition. In another embodiment, the frost protection mode initiates heating during the open window condition. An indoor air quality (IAQ) sensor 88 provides feedback to the fan coil control 110 as to the quality of air in the particular zone being conditioned.

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Please amend the paragraph on page 8, line 14 as shown below:

It will be apparent to those skilled in the art that various modifications and variations can be made to the present invention without departing from the spirit and scope of the invention. Thus, it is intended that the present invention cover covers the modifications and variations of this invention provided they come within the scope of the appended claims and their equivalents.

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